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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/713,747

11/14/2003

Peter Jung

L&L-I0026

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EXAMINER

BOLOURCHI, NADER

ART UNIT

PAPER NUMBER

2611

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
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3 MONTHS

02/20/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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Office Action Summary	Application No. 10/713,747	Applicant(s) JUNG ET AL.	
	Examiner Nader Bolourchi	Art Unit 2611	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 November 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1 and 6 is/are rejected.
- 7) ☒ Claim(s) 2-5 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>11/14/2003</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Priority

1. Applicant's claim for the benefit of a prior-filed application under 35 U.S.C. 119(e) or under 35 U.S.C. 120, 121, or 365(c) is acknowledged.
2. Acknowledgment is made of applicant's claim for foreign priority filed in Germany on 5/14/2001 under 35 U.S.C. 119(a)-(d).

Information Disclosure Statement

3. The information disclosure statement (IDS) submitted on 11/14/2003 have been considered and made of record by the examiner.

Specification

4. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Saito (US 5,943,362).

Regarding claim 1, satio discloses a RAKE receiver (Fig. 3: 18) for receiving signals transmitted by different propagation paths of a transmission channel (Fig. 3: 11) and spread-coded with chip sequences in frequency division duplex (FDD) and time division duplex (TDD) modes (Fig. 3: 22 and 23; col. 1: lines 1-12), the rake receiver comprising: at least two RAKE fingers (Fig. 9: 731-733; col.11: lines 10-19); an equalizer connected to said RAKE fingers for equalization of the signals processed in individual ones of said RAKE fingers, using equalizer coefficients (transversal filter of rake receiver 37 in Fig. 14: 96, which is shown in detail in Fig. 18; col. 7: line 54 - col. 8: line 31; col. 14: lines 64-67); and means for calculating the equalizer coefficients (Fig. 4: 38) for the FDD and TDD modes selectively (col. 3: lines 1-12), the equalizer coefficients for the TDD mode being calculated using a multiple subscriber method (col. 3: lines 18-24) on a propagation path non-specific basis for each chip of the signals to be equalized, and being applied to the signals, said means for calculating being connected to said equalizer (38 and 37 connection in Fig. 4).

Regarding claim 6, satio discloses a RAKE receiver (Fig. 3: 18) for receiving signals transmitted by different propagation paths of a transmission channel (Fig. 3: 11) and

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spread-coded with chip sequences in frequency division duplex and time division duplex modes (Fig. 3: 22 and 23; col. 1: lines 1-12), the rake receiver comprising: at least two RAKE fingers (Fig. 9: 731-733; col.11: lines 10-19); an equalizer connected to said RAKE fingers for equalization of the signals processed in individual ones of said RAKE fingers, using equalizer coefficients (transversal filter of rake receiver 37 in Fig. 14: 96, which is shown in detail in Fig. 18; col. 7: line 54 - col. 8: line 31; col. 14: lines 64-67); and a calculation unit for generating the equalizer coefficients (Fig. 4: 38) for the FDD and TDD modes selectively (col. 3: lines 1-12), the equalizer coefficients for the TDD mode being calculated using a multiple subscriber method (col. 3: lines 18-24) on a propagation path non-specific basis for each chip of the signals to be equalized, and being applied to the signals, said calculation unit connected to said equalizer (38 and 37 connection in Fig. 4).

Allowable Subject Matter

6. Claims 2-5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

7. As allowable subject matter has been indicated, applicant's reply must either comply with all formal requirements or specifically traverse each requirement not complied with. See 37 CFR 1.111(b) and MPEP § 707.07(a).

Remarks

8. No claim is allowed.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Subramanian, Ravi (US 6,934,319); Braam et al. (US 7,054,351).

Contact Information

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nader Bolourchi whose telephone number is (571) 272-8064. The examiner can normally be reached on M-F 8:30 to 4:30.

11. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David. C. Payne can be reached on (571) 272-3024. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

12. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should

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you have questions on access to the Private PAIR system, contact the Electronic
Business Center (EBC) at (866) 217-9197 (toll-free).

Nader Bolourchi
2/9/2007
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JEAN B. CORRIELUS
PRIMARY EXAMINER

2-15-07